



Fusarium diseases in Texas

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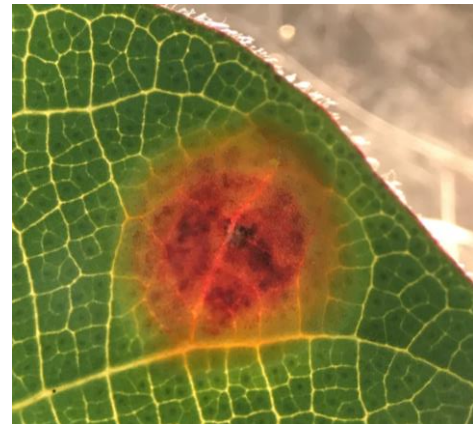
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at Lubbock, TX.

Southwestern Cotton Rust

- Reported
 - West Gaines County
 - Cochran and Hockley County line
- Chemical Treatment
 - Azoxystrobin (Ex. Quadris 6-9 fl.oz/acre)
 - Pyraclostrobin (Ex. Headline 6-12 fl.oz/acre)



Root Knot Nematode

- *Meloidogyne incognita*
 - Stunting
 - Wilting
 - Secondary pathogens

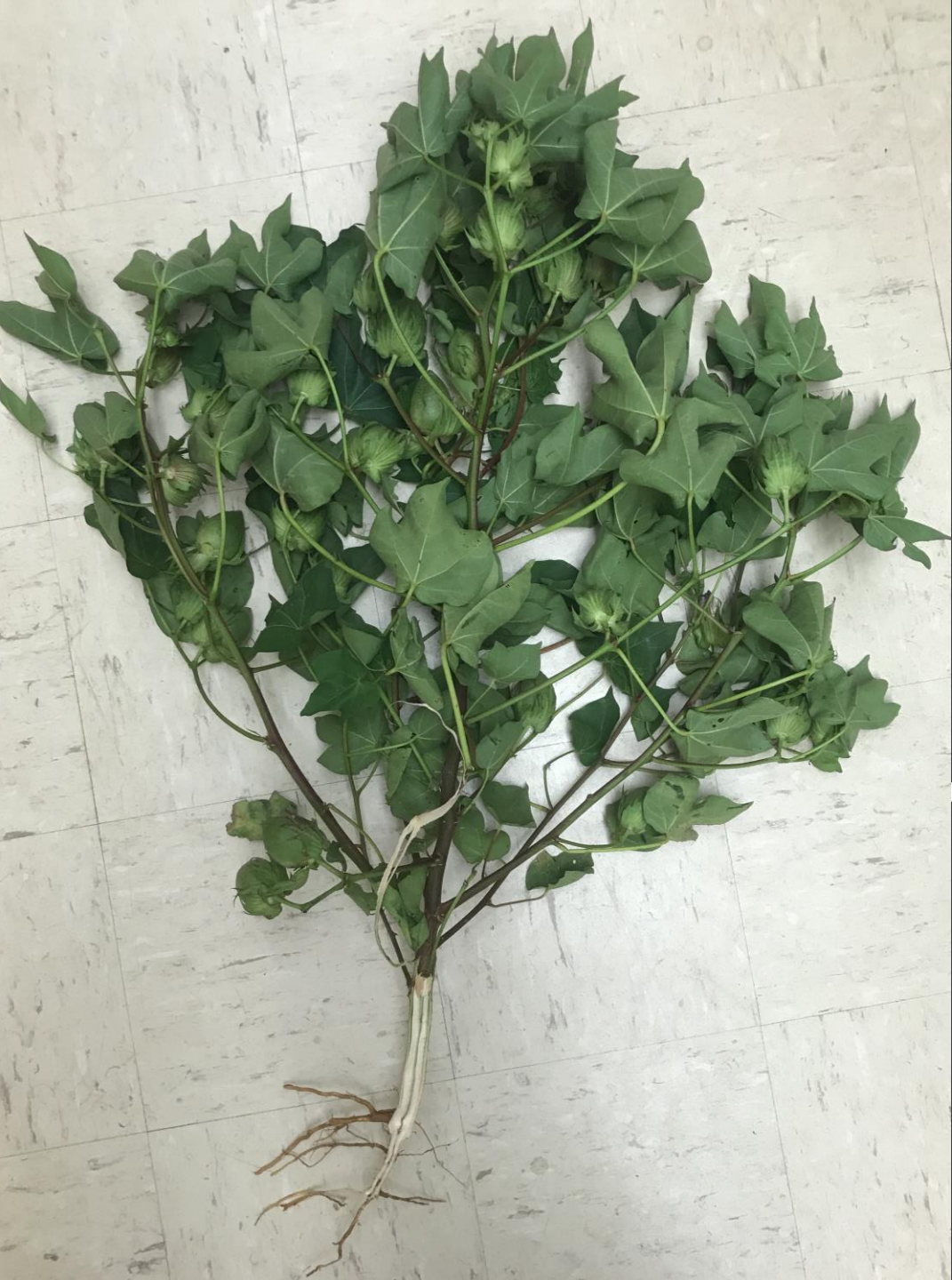






Fusarium Wilt in Lubbock area

Fusarium oxysporum f. sp. *vasinfectum* Race 1,2,3



Symptoms on leaves

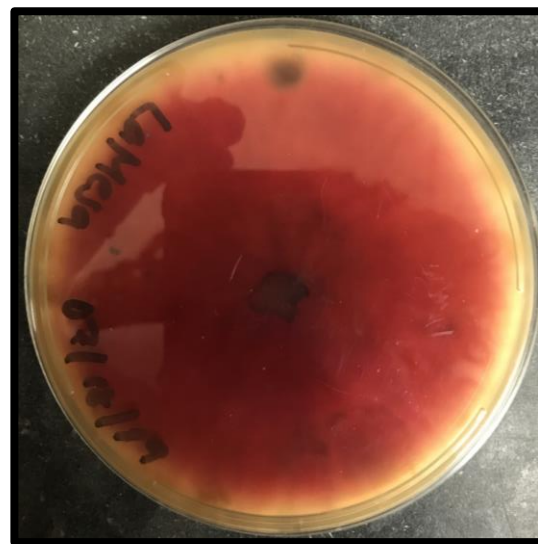
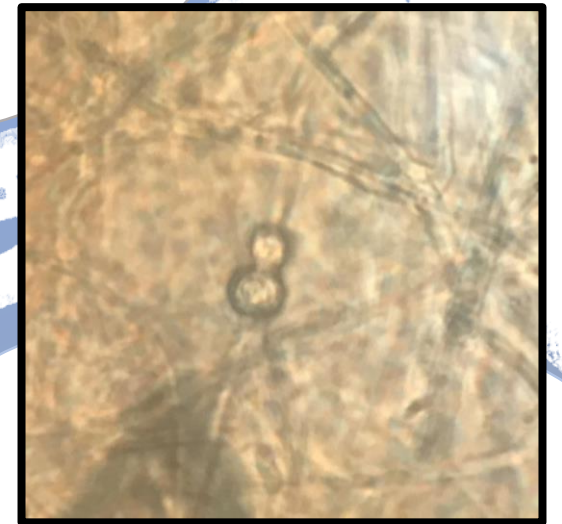
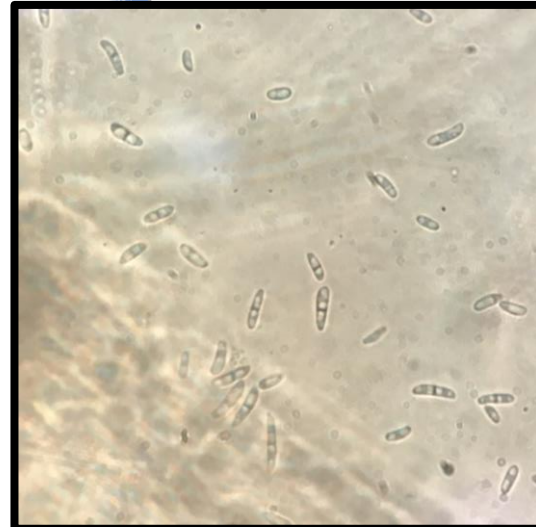
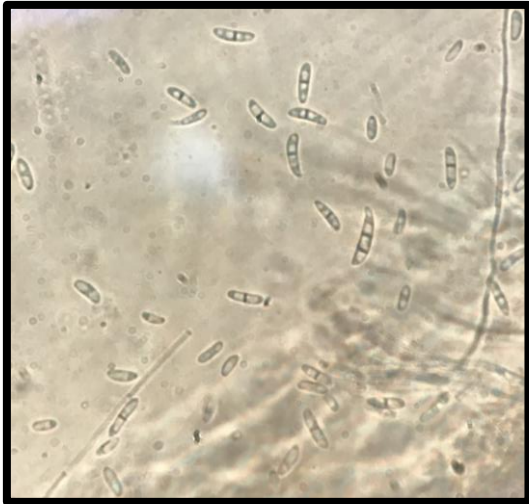






Tolerant vs Susceptible Race 1

Fusarium oxysporum





FOV4 in El Paso



FOV4 - *Fusarium oxysporum* f. sp. *vasinfectum* Race 4

What to do?



Do not share farm equipment from infected areas



Wash farm equipment and truck with biocide



Use rubber boots or disposable plastic cover



Wash thoroughly with Bleach (Clorox®)



Do not buy seed from El Paso area

Future Work

Fusarium spp. molecular characterization.

FOV4 detection and quantification techniques.

Use of cover crops to reduce nematodes populations.

Disease booklets

Development of a Cotton App

Acknowledgements



Cotton
Incorporated

TEXAS A&M
AGRILIFE
EXTENSION

- Terry Wheeler, PhD
- Jane Dever, PhD
- Tom Isakeit, PhD
- Mauricio Ulloa, PhD

Stay Connected



- Texas High Plains Plant Disease Diagnostic Lab @Amarillo
 - Dr. Ken Obasa, 806-677-5600, ken.obasa@ag.tamu.edu
- The Texas Plant Disease Diagnostic Lab @College Station
 - 500 Research Pkwy a130, College Station, TX 77845



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